**Directions: State the domain and range for the following relations and determine whether if it is a function.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | -1 | 5 | -2 | 3 | 1 |
| y | 4 | 2 | 3 | 1 | 3 |



**Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Function: Yes No**

****

1. **Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Function: Yes No**

****

1. **Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Function: Yes No**

1.  **Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Function: Yes No**

1. **Determine the function that explains the given data.**

|  |  |
| --- | --- |
| **x** | **y** |
| **3** | **-5** |
| **7** | **-3** |
| **1** | **-6** |
| **9** | **-2** |

**Find y if x = 78**

1. **Determine the function that explains the given data.**

**-21, -15, -9, -3, 3, …….. Find the 67th term.**

1. **Determine the function that explains the given data.**

|  |  |
| --- | --- |
| **x** | **y** |
| **7** | **-8** |
| **11** | **-6** |
| **-1** | **-12** |
| **-5** | **-10** |

**Find y if x = 23.**

**Directions Graph the following Functions.**





2. **Write the following in terms of x then graph.**





